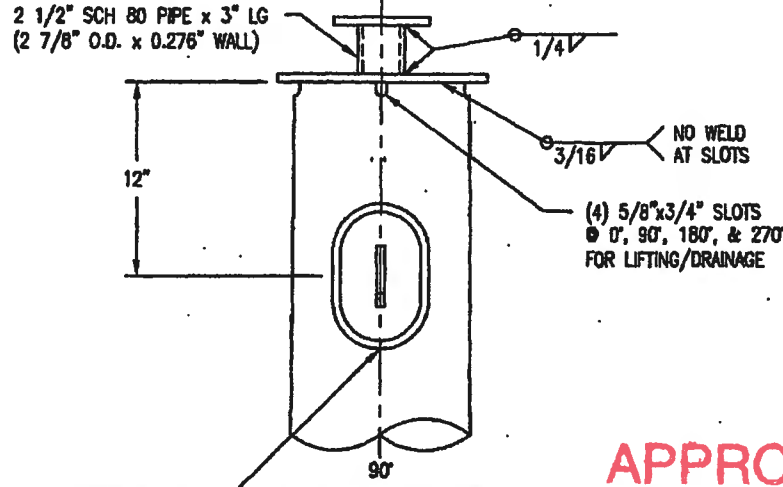
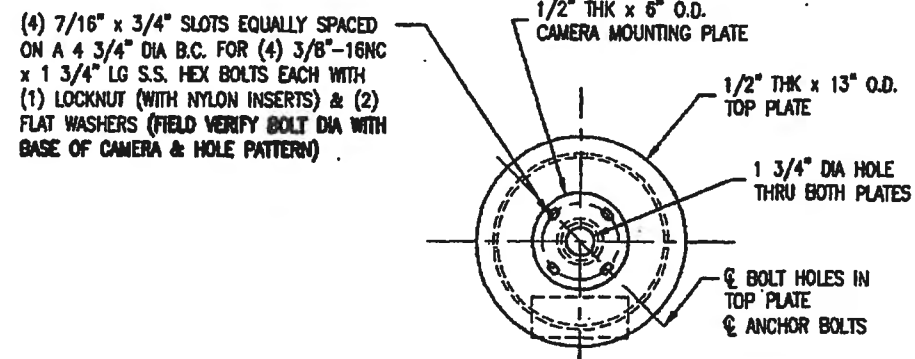


QTY	UMC DESIGN NUMBER	OAL HEIGHT	POLE TUBE SIZE	POLE BASE CONNECTION DATA						ANCHOR BOLT SIZE
				B.C.	S	F	P	T	H	
	P33-B323-Y1	20'-0"	7E-12.00x9.20x20'-0"							
	P33-B323-Y4	25'-0"	7E-13.00x9.50x25'-0"							
	P33-B323-Y5	30'-0"	7E-13.50x9.30x30'-0"							
	P33-B323-Y6	35'-0"	7E-14.00x9.10x35'-0"							
	P33-B323-Y2	40'-0"	7E-18.25x10.65x40'-0"							
	P33-B323-Y7	45'-0"	0.188-18.51x12.11x45'-0"-18 [0.188-18.25x11.85x45'-0"-18]	25 1/2	25	18	5 1/4	1 1/4	1 3/8	1 1/4" x 52"
	P33-B323-Y3	50'-0"	0.250-19.52x12.42x50'-0"-18 [0.250-19.25x12.25x50'-0"-18]							

7 GA = 0.179" WALL THICKNESS
 3 GA = 0.250" WALL THICKNESS
 0.188 = 0.188" WALL THICKNESS
 0.250 = 0.250" WALL THICKNESS
 E = ROUND TAPERED STEEL TUBE @ 0.14 in/r TAPER
 -18 = 18-SIDED TAPERED STEEL TUBE @ 0.14 in/r TAPER
 DIMENSIONS GIVEN (ACROSS CORNERS) & [ACROSS FLATS]

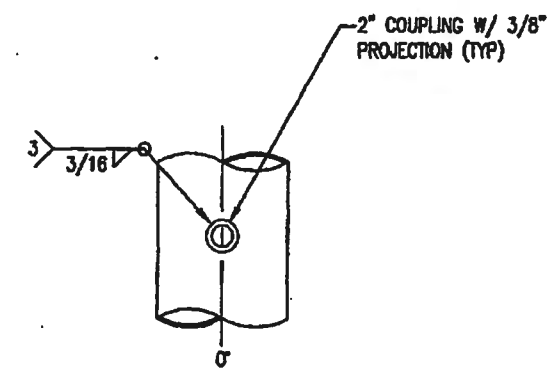
DESIGN CRITERIA:

- DESIGNED IN ACCORDANCE WITH 2009 AASHTO, 5TH EDITION, "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR 90 M.P.H. WIND ZONE. THE DESIGN PARAMETERS INCLUDE:
 50 YEAR STRUCTURE DESIGN LIFE / RECURRENCE INTERVAL
 FATIGUE CATEGORY I CONSIDERATION FOR:
 NATURAL WIND GUST
 POLE DEFLECTION SHALL NEITHER EXCEED 0.7" IN 30 M.P.H. WIND NOR 1.4" IN 70 M.P.H. WIND
 LOAD CASE #2:
 (1) CAMERA = 4 sq ft @ 2'-0" ABOVE TOP OF POLE
 (2) SIDE CAMERA = 0.54 sq ft @ 1'-0" FROM TOP
 (3) SIDE CAMERA = 0.54 sq ft @ 2'-0" FROM TOP
 (4) NEMA CABINET = 1.33 sq ft @ 3'-8" FROM TOP
 (5) RADIO EQUIP = 2.25 sq ft @ 2'-0" FROM TOP
 (6) RADIO EQUIP = 2.25 sq ft @ 9'-0" FROM TOP
- ANCHOR BOLT PROJECTION FROM TOP OF FOUNDATION TO BOTTOM OF BASE PLATE MUST NOT EXCEED ONE NUT HEIGHT PLUS ONE INCH.
- CUSTOMER TO CONFIRM ALL DIMENSIONS & ORIENTATIONS BEFORE RELEASING ORDER FOR MANUFACTURING.

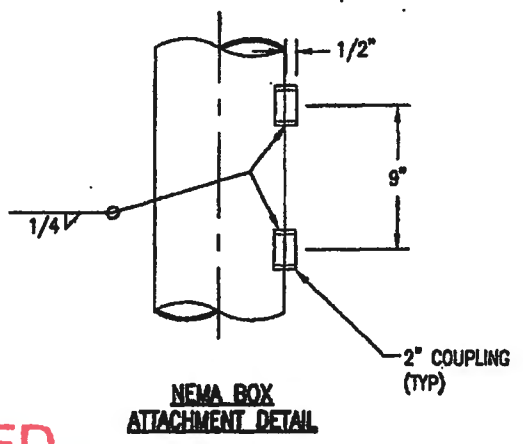


UPPER 6"x8" HANDHOLE (SEE DETAIL) TOP OF POLE DETAIL

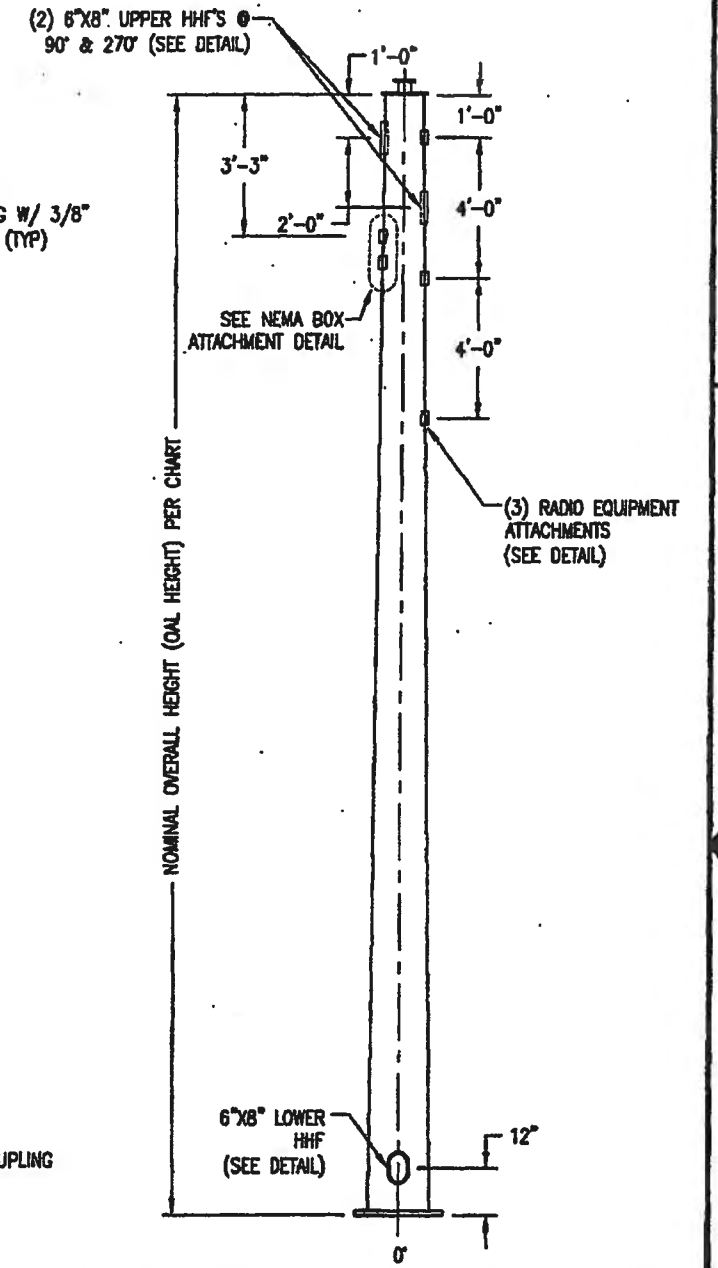
NOTE: CONTRACTOR TO VERIFY TOP PLATE, CAMERA MOUNTING PLATE, BOLT CIRCLE, AND BOLT HOLES ARE ADEQUATE FOR THE REQUIRED CAMERA BEFORE RELEASING FOR MANUFACTURING.



RADIO EQUIPMENT ATTACHMENT DETAIL (TYP-3 PLACES)



NEMA BOX ATTACHMENT DETAIL



APPROVED
 Manufacturer's Pole Plan
 Approved For Listing As A
 Pre-Approved Drawing
 WSDOT Bridge & Structures Office
 By GB Date 5-30-2012

MATERIAL SPECIFICATIONS	
ROUND TAPERED TUBE	ASTM A595 GR A
18 SIDED TAPERED TUBE	ASTM A572 GR 50 MIN
PLATE	ASTM A36
BAR HANDHOLE FRAME	ASTM A529 GR 50 (PREFERRED) or ASTM A572 GR 50 or ASTM A709 GR 50
HANDHOLE COVER	ASTM A36
ANCHOR BOLTS	ASTM F1554 GR 105
ANCHOR BOLT NUTS	ASTM A563 GR DH
FLAT WASHERS	ASTM F436
PIPE	ASTM A501 GR A (36 KSI), A53 GR B or A500 GR B
COUPLINGS	ASTM-A513
S.S. HARDWARE	AISI-300 SERIES (18-8)
STRUCTURE FINISH	PER SALES ORDER
HARDWARE FINISH	HD GALV TO ASTM A153



5/21/12

STATE: WASHINGTON	REQ / SOF : DWA-032311-1	REV	DESCRIPTION	DATE	REV BY
PROJECT NAME: WSDOT CAMERA POLES					
ROUND TAPERED STEEL CAMERA POLES-LOAD CASE #2 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION					
DESIGNED BY	CHECKED BY	DATE	SCALE	ENG REF	
EGB	JAY	4/1/11	NTS	P33-B318	
P33-B323				REVISION	SHEET
				R4	1 OF 2